

RIODIN HE

Cartridge High Energy Dynamite

TECHNICAL DATA SHEET





1. LDPE Plastic film cartridge encasing.



2. Simple access area for secure insertion of detonator.

SAFETY

USE: **RIODIN HE** should be used, handled and stored with care, ensuring the product is kept away from flames and excessive heat sources.

DISPOSAL: The disposal of explosive material can be dangerous, ensure the appropriate safety measures have been applied according to the instructions on the MSDS.

ADVANTAGES

- High energy.
- Available in a variety of cartridge sizes.
- Waxed paper or plastic encasing.
- Low fumes generation.
- High density.

DESCRIPTION

RIODIN HE is a high shock energy nitroglycerine/ nitroglycol based explosive supplied in a variety of cartridge sizes and packaging in order to suite the most demanding mine and quarry blasting requirements, including:

- Paraffined paper cartridges
- Plastic film cartridges

APPLICATION

RIODIN HE is distinguished by its higher energy that makes this product an ideal solution for the most energy demanding applications such as extremely hard rock blasting in quarries, construction, tunneling and underground mining.

RIODIN HE can also be used in priming applications, bottom charges and as a high-energy column explosive.

SHELF LIFE

 $\mbox{\bf RIODIN HE}$ has a storage life up to 18 months in an appropriate magazine.

The exposure to extreme hot and cold temperatures may affect the product and make it deteriorate prematurely.

RECOMMENDATIONS FOR USE

Water resistance and high density make it suitable for the use in wet boreholes. Not for use in flammable or methane environments.

RIODIN HE is detonator sensitive.

The temperature of this product should be in a range of -10° C and $+60^{\circ}$ C. For further information consult the Use Recommendations Sheet included inside the RIODIN boxes or the packaging of the product and its respective Material Safety Data Sheet.

STORAGE

To maintain the properties of MAXAM's explosives, we recommend they be stored in authorized magazines, in a cool dry place, with good ventilation.

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RIODIN HE



Technical Characteristics Relative Effective Energy 1 (%) Velocity of Gases Volume **Density Range** <u>Relative</u> Weight (L) (g/cm^3) Relative Bulk Detonation * (ms/s) Strength Strength 1,45 6.000 - 7.500145 2.63 902

(1) ANFO: Density 0,80 g/cm³. Effective Energy 2.26 MJ/kg.
*VOD will depend on application including explosive density diameter type of rock coupling rate between cartridge and blasthole

*VOD will depend on application including explosive density, diameter, type of rock, coupling rate between cartridge and blasthole, and degree of confinement. The maximum value within the range is the ideal VOD.				
Standard Packaging l.lD (Nominal values)				
Diameter x Length (mm)	Cartridge Weight (g)	Cartridges/Box	Weight/box (kg)	Type of Encasing
26 x 200	152	165	25	Waxed paper cartridge
28 x 340	298	84	25	Waxed paper cartridge
32 x 200	238	105	25	Waxed paper cartridge
32 x 350	385	65	25	Waxed paper cartridge
40 x 200	357	70	25	Waxed paper cartridge
40 x 400	714	35	25	Waxed paper cartridge
50 x 380	1000	25	25	Waxed paper cartridge
40 x 570	1042	24	25	Plastic wrap cartridge
50 x 550	1471	17	25	Plastic wrap cartridge
55 x 560	1923	13	25	Plastic wrap cartridge
60 x 525	2083	12	25	Plastic wrap cartridge
65 x 530	2500	10	25	Plastic wrap cartridge
70×545	3000	8	24	Plastic wrap cartridge
80 x 570	4000	6	24	Plastic wrap cartridge
90 x 570	5250	4	21	Plastic wrap cartridge
100 x 570	6250	4	25	Plastic wrap cartridge
120 x 350	5000	4	20	Plastic wrap cartridge
120×570	9500	2	19	Plastic wrap cartridge
Transport Classificat	ion Standard P	Standard Packaging		
Class	1.11	D		
UN Number	000	31		

Read the Instructions Safety Sheet and the Material Safety Data Sheet provided carefully before using RIODIN. MAXAM strongly recommends not to use RIODIN products with detonators and/or initiation systems supplied by other manufacturers in the same blast and declines all liability in these cases. RIODIN must be stored at moderate temperatures in a dry and well ventilated place.

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